ROKU™

SoundBridge

Network Music Player

User Guide

Welcome

Thanks for purchasing a Roku SoundBridge! We hope you enjoy using it as much as we've enjoyed creating it.

SoundBridge lets you play music you have stored on your PC or Mac anywhere in your home. It also lets you access many of the thousands of Internet radio stations that broadcast on the web.

Roku's media players are designed to be upgradeable in the field, and we are always working on improving the software for our products. Your SoundBridge has a menu option to check for, and automatically install, software updates. We recommend you try this a soon as your system is set up to make sure you have the latest software. (See the "Getting Started" section for more information.) We also recommend that you go to www.rokulabs.com to register your purchase, so we can notify you when a new upgrade is available.

Enjoy!

Register Your SoundBridge!

It's quick, easy and allows you to receive the latest software updates for SoundBridge. Of course, we won't share your personal information with anyone else. Please visit www.rokulabs.com/support to register.

Run the Latest Software!

We're working hard to make SoundBridge better all the time — don't miss out on the latest enhancements. After you get SoundBridge up and running, checking for software updates is as easy as the press of a few buttons. Software updates are easy to download and install, and you can do it from the comfort of your couch, using the SoundBridge remote control. Read page 11 for easy instructions.

Visit **www.rokulabs.com/support** to register your SoundBridge.

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GETTING STARTED

To use SoundBridge you will need to:

1. Make sure you have iTunes installed and running, and the "share" option selected.
2. Connect SoundBridge to powered speakers or your home stereo system's receiver or amplifier.
3. Connect SoundBridge to your computer via an Ethernet or Wi-Fi network.
4. Plug in SoundBridge to AC power (there is no "on/off" switch).
5. If you are using Wi-Fi and have WEP security enabled, you will need to enter your security key with SoundBridge using the remote control.
6. Select and connect to an iTunes music library.
7. Play music: Using your remote control, find a song you want to play, then press **Select** twice to play it immediately or **Add** to add it to the Song Queue.

Read on for detailed explanations of the steps above.

1. Software Requirements

Roku SoundBridge is designed to act as a remote client for iTunes music. It knows how to talk directly to the iTunes "share" mode built into iTunes. Be sure to launch iTunes (version 4.0 or later) on your computer before using SoundBridge.

If you are not currently using iTunes, you have a couple of options:

A) Download and install iTunes from www.itunes.com. If you already use another music management software (such as Music Match) and want to keep using it, no problem; just download iTunes, install it, and point it to your music library. You can continue to use Music Match for playing music on your computer, but run iTunes in order to share your music with SoundBridge on your home network. (However, only playlists created in iTunes will be recognized by SoundBridge.)

In iTunes, be sure to turn on the "sharing" option. Go to the iTunes/Preferences menu on your Mac or Edit/Preferences on your PC. In the dialog box that appears, click the "sharing" tab. You should see the screen similar to the one below. Click the option

"Share my music" to enable sharing on your local network.

B) Another option is to download and use "SlimServer." This free and open-source music server is supported by SoundBridge. However, it has its own user interface which is not documented in this manual, and the software is not supported by Roku Customer Support. You can download it at http://www.slimdevices.com/su_downloads.html

2. Hooking Up Your Home Network Hardware (Wired Ethernet or Wireless)
Please remove the left end cap of your SoundBridge to connect your Ethernet cable or your wireless adapter **(never both at once)**. Note that both end caps have a hole for routing your cables toward the back of the unit.

Wireless Connection: Insert your Wi-Fi CompactFlash card into SoundBridge (if applicable). This adapter should be inserted into the CompactFlash card slot with the Roku label facing toward the *back* of the unit, and toward the Ethernet jack. Close the end cap by snapping it securely into place.

Ethernet Connection: Plug your cable into the jack provided. Connect your Ethernet cable to a hub, switch or router in your home network. Alternatively, you can connect SoundBridge directly to your computer (and bypass a hub/switch/router), but only with a "crossover" cable (not included). Close the end cap by snapping it securely into place.

Please note that not all wireless CF adapters are compatible with SoundBridge. Roku offers

a compatible adapter for sale on our web store, www.rokulabs.com. There you can also find a list of supported wireless CF adapters.

Left side of SoundBridge, end cap removed

3. Hooking Up SoundBridge to Your Speakers or Stereo System

Both end caps of your SoundBridge unit are removable. The right end cap covers the audio connectors and AC power connector, the left one holds an Ethernet connector and your Wi-Fi Network adapter CompactFlash slot (Wi-Fi adapter may be sold separately depending on your SoundBridge model).

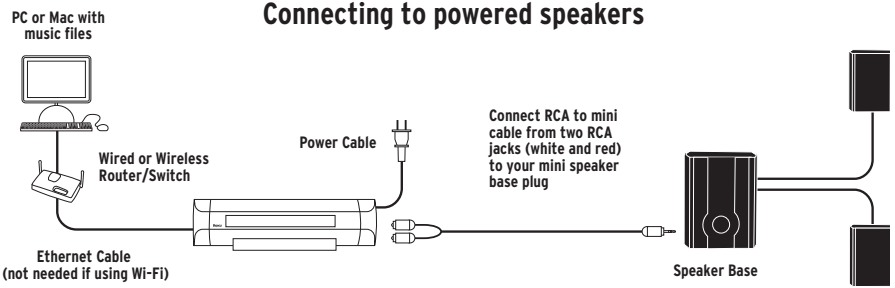
Remove the right end cap to connect audio cables by gently pressing on the flat part of the end cap, while pressing on the dimpled tabs in the back of the end cap, and pivot backward.

Once removed, your right end cap will reveal the connectors below:

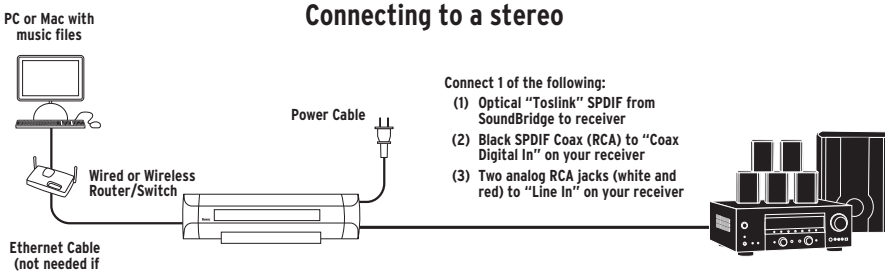
Right side of SoundBridge, end cap removed

Your SoundBridge has several audio connection options:

a. Connect your SoundBridge to a set of powered speakers, using the mini (1/8 inch) audio cable included with your SoundBridge.


Connecting to powered speakers
PC or Mac with music files
Wired or Wireless Router/Switch
Power Cable
Connect RCA to mini cable from two RCA jacks (white and red) to your mini speaker base plug
Ethernet Cable (not needed if using Wi-Fi)
Speaker Base

b. Connect your SoundBridge to your stereo system's Aux or other "Line Input," using an RCA (white/red) audio cable (not included).


Connecting to a stereo
PC or Mac with music files
Wired or Wireless Router/Switch
Power Cable
Connect 1 of the following:
(1) Optical "Toslink" SPDIF from SoundBridge to receiver
(2) Black SPDIF Coax (RCA) to "Coax Digital In" on your receiver
(3) Two analog RCA jacks (white and red) to "Line In" on your receiver
Ethernet Cable (not needed if

c. Connect to your stereo system using either coaxial SPDIF digital or optical SPDIF digital (the SoundBridge has connectors for both) — cables not included.

When you are finished connecting your SoundBridge, be sure to replace the end caps.

4. Connecting SoundBridge to AC Power

Please connect the small power cord into the SoundBridge unit, and plug the other end into to a wall outlet. Note that the back of the end cap has a hole for routing your audio and power cables toward the back of the unit. Close your end cap by snapping it securely into place.

Hint: There is no power switch to turn on the SoundBridge. As soon as you plug in the power, you should quickly see the welcome message "Roku SoundBridge." If not, please stop and ensure that your power cable is connected properly on both ends. You will need to see a working display before moving on to the operation of your SoundBridge.

Warning: Do not operate your SoundBridge with the end caps removed. Be sure to disconnect SoundBridge from AC power (by unplugging the power supply from the wall) before connecting or disconnecting any cables or the CompactFlash Wi-Fi card. Always be sure to replace the end caps on the unit before plugging in the AC power supply into the wall, in order to avoid abnormal unit operation due to static discharge.

5. Using Your Remote Control

First, insert two AAA batteries (included) into your remote control.

Then, point it in the direction of your SoundBridge unit (make sure the IR receiver window is not blocked by a nearby object).

SoundBridge remote control

6. Establishing a Network Connection

Wired Ethernet Network: After you have connected SoundBridge to your computer via a switch/hub/router (or directly to your computer via crossover cable) and powered up the unit, SoundBridge will auto-configure its network settings (using DHCP or AutoIP). There is nothing you need to do. If for some reason you have trouble connecting to your network, select the "SYSTEM CONFIGURATION" option, then select "SHOW WIRED ETHERNET STATUS."

Wireless Network: If you have a Wi-Fi network in your home, with no security keys set, then SoundBridge will also auto-connect to your wireless network. If SoundBridge detects more than one Wi-Fi network (as some advanced users have in their home, or if your neighbor's signal is leaking over), then you will be asked to select the SSID (network ID) to connect to.

If you have a security key, you will need to enter your WEP key manually into SoundBridge. This is the same key you have entered into your Access Point and your computer. Your screen will look something like this:

```
[NO MUSIC LIBRARIES FOUND]
SYSTEM CONFIGURATION
```

Scroll down on this screen using your down ▼ arrow until the option "SYSTEM CONFIGURATION" is highlighted, and press **Select** on your remote control. You will see a screen that looks like this:

```
CHECK FOR NEW SOFTWARE-CURRENTLY
 V1.0.2
SHOW WIRED ETHERNET STATUS
SHOW WI-FI STATUS
SELECT WI-FI SSID & PASSWORD
```

Navigate down to "SELECT WI-FI SSID & PASSWORD" and select your wireless network name and password.

Personal Firewall Users

If you have trouble connecting and your computer has a firewall installed, make sure your firewall is configured to allow iTunes music sharing.

Mac: Open System Preferences. Select the Sharing icon and click on the Firewall tab. Select the option "iTunes Music Sharing."

PC: Refer to your firewall's documentation for opening incoming ports. Configure your firewall to allow incoming connections on

port 3689. For WindowsXP Service Pack 2 users, open "Security Center," and click on "Windows Firewall" on the bottom right of the window. In the window that pops up, click on the Exceptions tab, and check to see whether iTunes is shown and checked in the list of Programs and Services. If not, press "Add Program" and add iTunes. (See below.)

After these changes have been made, restart SoundBridge by disconnecting it from AC power.

For additional help connecting to your network, visit www.rokulabs.com/support.

7. Choosing Your Music Library

Once your SoundBridge is successfully connected to your network, it will automatically find your computer's music server and detect any supported music libraries. After SoundBridge detects your music library, you will be prompted to choose the library you would like to access from a screen that looks something like this:

```
PLAY DAN'S MUSIC LIBRARY
SYSTEM CONFIGURATION
```

Navigate to your preferred library (in this case, "Dan's music library") and press **Select.** You will then see the "Main Menu," where you can begin browsing and playing your music.

If instead you see the message [NO MUSIC LIBRARIES FOUND], your network is not connecting to your computer properly or your iTunes libraries are not found. Please choose SYSTEM CONFIGURATION for troubleshooting your network connection. (Make sure your computer is turned on, iTunes is running, and "Share my music" is enabled under iTunes/ Preferences/Sharing — as illustrated on the next page.)

Visit www.rokulabs.com/support for help.

The next time you turn on SoundBridge, provided you only have one music library to choose from, SoundBridge will automatically connect to that library upon startup. If you would like to return to the screen that allows you to choose your desired libraries manually, select the "CHANGE LIBRARY OR CONFIGURATION" option located at the bottom of SoundBridge's Main Menu (accessible by pressing the **Menu** button).

8. Setting Preferences Before Operation (Optional)

The brightness of your display can be adjusted by pressing the Bright button.

Text size can also be controlled for the SoundBridge M1000 and M2000's VFD display here. Contrast can be controlled this way for models that allow contrast control.

Also, from the Main Menu, you can navigate down to the SETTINGS option to change the appearance of the music visualizer, such as whether it appears full screen during playback.

For a complete list of SoundBridge settings, please see the "Advanced Features" section of this user guide.

9. Mounting the SoundBridge on the Wall (Optional)

Your SoundBridge ships with a portable black rubber table stand which looks great on your shelf or night stand. An optional wall mounting kit is available for sale at www.rokulabs.com/buy. This allows the SoundBridge to be mounted to the wall or under a cabinet using a sleek, hidden

bracket which screws into your wall. For more information, please visit Roku's web site.

10. Checking for the Latest SoundBridge Software (Optional)

Updating your software is quick and easy. You'll need SoundBridge connected to a network which is connected to the Internet via a high-speed connection such as DSL or cable modem. To make sure you have the latest version of SoundBridge software, please follow these instructions:

1. Make sure your home network to which SoundBridge is connected has Internet access.
2. Press the **Menu** button on the remote control.
3. Navigate down to CHANGE LIBRARY OR CONFIGURATION and press **Select.**
4. Navigate down to SYSTEM CONFIGURATION and press **Select.**
5. Navigate down to CHECK FOR NEW SOFTWARE– CURRENTLY V 1.0.x and press **Select**.

You should see a screen with a progress bar:

```
CONTACTING SERVER
[********]
```

You will then see one of the following two screens:

```
YOUR SOFTWARE IS UP TO DATE
```

In that case you don't need to do anything. Press **Select** to accept this message and return to the previous "System Configuration" menu. Press **Exit** to return to the "Change Library" menu, navigate to the music library you want to play, and press **Select**.

Alternatively, if your software requires updating, it will be downloaded and installed automatically. After the above "contacting server" message, you will see the following screen:

```
UPGRADE SUCCESSFUL
SELECT OK TO REBOOT
```

Press **Select** on the OK option and you will see a screen confirming that your unit is rebooting.

After your software has been updated, you may want to check Roku's web site for the latest version of the SoundBridge user guide. Roku will release a new version of

the user guide for PDF download if new features or functions have been added to the SoundBridge software. Please visit www.rokulabs.com for more information.

MUSIC PLAYBACK — OVERVIEW

Audio File Formats Supported

You are now ready to begin playing music. SoundBridge supports a wide variety of audio formats, including: MP3, AAC, AIFF, and WAV. (WMA, FLAC and Ogg-Vorbis are supported only with the optional SlimServer software.) Please note that AAC files purchased from the Apple Music Store (also known as DRM AAC files) will appear as menu items with a padlock icon, and are not available for playback on SoundBridge at this time.

Sample rates supported: (kHz) 8.0, 11.025, 12.0, 16.0, 22.05, 24, 32, 44.1, 48.0

Bit depth supported: 8 bit, 16 bit, mono or stereo.

Navigation Quick Reference

▲ ▼ The Up and Down arrow buttons take you through a list item by item.

◀ ▶ The Left and Right arrow buttons allow you to "speed browse" — either skip to the next (or previous) letter, or if your list is not arranged alphabetically, by about 5% of your list at a time.

➔ The arrow icon shows current item highlighted.

The **Select** button takes you one level down into the highlighted item. When you can go no lower in your menu structure, the **Select** button calls up options to start song playback. (It may help to think of pressing the **Select** button as clicking on the highlighted item with a mouse.)

The **Add** button adds your current selection to the end of your Song Queue.

⏭ ⏮ The Next Track and Previous Track buttons advance or retreat playback of your Song Queue one song at a time.

The **Menu** button takes you to the Main Menu.

The **Search** button takes you to your text-based search options.

The **Exit** button takes you one step backward (think of it as the BACK button on your Internet browser).

Pressing the **Exit** button repeatedly will display the "Now Playing" screen, which displays information about the currently playing song.

Screen Icons Quick Reference

On your "Song Queue" screen:

♪ The music note icon denotes a single track (as opposed to a collection of tracks).

)) The speaker with audio waves shows current song playing in the "Song Queue" menu.

◂ The speaker without audio waves shows current song paused in the "Song Queue" menu.

The upward facing radio transmission signal indicates an Internet radio station.

The padlock icon indicates secure AAC songs purchased from the Apple Music Store; these songs are not available for playback by SoundBridge.

On your "Now Playing" screen:

▸ The Play icon indicates SoundBridge is in playback mode.

❚❚ The Pause icon indicates playback has been paused.

■ The Stop icon indicates playback has been stopped.

🔀 The Shuffle icon (with two crossed arrows) indicates playback of your Song Queue is happening in random order.

🔁 The repeat icon indicates continuous playback of your Song Queue.

🔂 The repeat single track icon indicates continuous playback of the currently playing track.

The "X" icon indicates an unsupported file format.

MUSIC PLAYBACK — TUTORIAL

The Main Menu

To begin navigating through your music, start on your "Main" menu, by pressing the **Menu** button. The display on SoundBridge should look something like this:

```
➔ PLAYLISTS
  BROWSE
```

Only the first two lines of the Main Menu are displayed at once (or the first four lines, if you are using M2000 with four lines enabled in your display settings, or one line if you are using an M2000 with the largest font size enabled), but the scroll bar at the right of the screen shows you where you are in the list, and how much more information is available above and below your current screen view. Use the Up/Down ▲ ▼ arrow buttons to navigate between the following options on the Main Menu:

```
➔ PLAYLISTS
  BROWSE
  SEARCH
  SHOW SONG QUEUE
  NOW PLAYING
  SETTINGS
  CHANGE LIBRARY OR SYSTEM
     CONFIGURATION
```

The ➔ arrow to the left of a menu item denotes the current item.

> ***Hint:*** Because you can't see the whole list of options at once, use the scroll bar (at the right of your display) to see where you are in your list.

Browsing by Album

Press the Down ▼ button until you see the BROWSE option highlighted and press **Select** on your remote control. You will see a listing of browsing options:

```
➔ BROWSE ALBUMS
  BROWSE ARTISTS
```

If you scroll down, you will see the other two browsing options:

```
BROWSE COMPOSERS
BROWSE GENRES
```

Now, if you navigate to the BROWSE ALBUMS option and press **Select,** you will see an alphabetical listing of Albums found in your music library. The screen will look something like this:

```
➔ PARACHUTES
  PAUL'S BOUTIQUE
```

Navigate to the album that you want to hear using the Up/Down ▲ ▼ arrow buttons – in our example, "Parachutes." When the album you want is selected, press the **Select** button for a listing of songs found on this album.

The music note ♪ next to each song name indicates the selection is an individual track (and not a playlist, album or other collection of songs). Please note that songs purchased from the Apple Music Store will be denoted in the display with a padlock 🔒 icon. SoundBridge is not able to play back these "locked" files – they will simply be skipped over during playback.

```
➔ ♪ DON'T PANIC
  ♪ SHIVER
```

Use the Up/Down ▲ ▼ arrows again to highlight the song you want to play. Press the **Select** button *twice* to start that song playing. When the song begins playback, the display will switch to the "Now Playing" screen, which looks something like this:

```
DON'T PANIC                0:10/2:17  ▸
COLDPLAY   PARACHUTES (2000) (|||------)
```

Please note that the artist and album information may be abbreviated, or appear one line at a time, if the total number of characters exceeds what can be displayed at once. See the "Settings" chapter at the end of this manual for more information on display options.

> ***Hint***: If you would like to go back to the above "Now Playing" screen at any time in order to know what's playing, press **Exit** several times until you see this screen. Alternatively, press **Menu,** then scroll down to the NOW PLAYING option and press **Select**. This screen also

appears by default after a few minutes of inactivity on the remote control.

If you press **Select** twice on an album track, that track will play, followed by each track remaining on the album. For example, if you double-select track #5 on an album with 10 tracks total, then tracks #5-#10 will play. (For continuous playback of the entire album, press the **Repeat** button on your remote control – the album will play until the end, then start again at the beginning.)

***Hint*:** While your original selection is playing, if you navigate to a new song and **Select** twice, you will "flush" the old selection (called the "Song Queue), and replace it with your new selection. Therefore you should only double-press **Select** when you want to erase your existing Song Queue and start a new one. Use the **Add** button to add a song to the Song Queue.

To better understand playback controls, it may help to consider the commands you already use in iTunes:

iTunes: Move your mouse to the song you want to play, and double click to play it.

SoundBridge: Navigate to the song you want to play, then double-press **Select** on your remote control to play the song.

In both iTunes and SoundBridge, **Play** and **Pause** buttons determine whether you hear music now or later. As long as you have selected something to play, you can press **Play** on your remote control to hear audio, or **Pause** to put it on hold.

If you are not sure what you have selected to play, simply press the Down arrow ▼ from your "Now Playing" screen (the screen that displays the currently playing song). This will list your "Song Queue" (see next section).

Building a Song Queue

Let's say you would now like to choose several different songs or selections to play in a row. This is called building a "Song Queue." SoundBridge automatically builds a Song Queue every time you select a song or album to play. You can add to that list by navigating to your preferred music and pressing **Add**. The selection will be added to the end of the current Song Queue.

You may add a single song, an entire album, all songs by an artist, all songs in a genre, or any search result – just browse to the selection you prefer and press **Add**. For example, if you would like to play all songs by Coldplay, select the BROWSE ARTISTS option from the Main Menu/Browse option. Navigate to COLDPLAY in your artist list, and press **Add**. All songs on all albums by Coldplay will be played by album, in the order they appear on each album. For more information about browsing and searching options, see the "Browsing" and "Searching" sections later in this user guide.

You have several other options for building a Song Queue. After you press Select while browsing on a song, a "Song" menu appears with the following options:

1. Play, starting with the selected song (and clear previous Song Queue)
2. Get information about the selected song
3. Play the selected song only (and clear previous Song Queue)
4. Insert the selected song into the Song Queue (after the current song)
5. Add this song to the Song Queue (same as pressing the **Add** button)

Note that both "play" options 1 and 3 above are "destructive"; they will clear your previously existing Song Queue. The "add" and "insert" options, however, will add the selected song to your existing queue.

The first, "play these songs" option is described in the section above – it starts playing your album (or other browsed list), beginning with the current track.

> ***Hint:*** Notice that "Play songs" is the first item in the menu. That makes it easy to play a list of songs, starting with a particular track. You can just "double-click" the **Select** button on the track you'd like to play first — the first click brings up the "Song" menu, and the second executes the "Play songs" command. You can think of this as double-clicking on a track listed in your iTunes library.

If you choose "Play songs" on any track in your selection, the entire list is added to the Song Queue, but playback starts on the chosen track. If you have the **Repeat** option selected, the earlier tracks in the

queue will play after the last song (and so on indefinitely). If you have the **Shuffle** option selected, then the chosen track will play first, followed by all the other tracks in the list in random order.

The "Add song to Song Queue" option behaves similarly as the **Add** button – it places the current song at the end of your playlist. The "Insert song next in Song Queue" inserts the highlighted song to the Song Queue in second place, after the track that's playing or paused currently.

You can add an almost unlimited number of songs to your Song Queue. Each selection will be played in the order it was entered (unless you have chosen to **Shuffle** your Song Queue).

> ***Hint***: After you have selected multiple songs to be played in turn, you can use the "Next Track" ⏭ and "Previous Track" ⏮ buttons to skip from song to song in your Song Queue.

Viewing a Song Queue

At any point, you can review what's in your Song Queue by pressing the down arrow ▼ from the Now Playing screen, which is the default screen that appears while SoundBridge is playing. The Now Playing screen looks something like this:

```
DON'T PANIC                0:10/2:17  ▸
COLDPLAY   PARACHUTES (2000) (|||------)
```

You can also press **Exit** several times; eventually, the Now Playing screen appears.

Alternatively, you can press **Menu**, then select the SHOW SONG QUEUE option. You will see the entire list of songs in your song queue; refer to the scroll bar on the right side of the screen to determine where in the list you are located. Press the Up/Down arrows ▲ ▼ to see the entire list of selections in your Song Queue. The currently playing selection is indicated by a speaker ◂ icon.

You cannot save a Song Queue that you have created — it's only held in memory temporarily and then erased when you build your next Song Queue. If you would like to build a Song Queue that you can save and recall at will, please do so in your iTunes software by creating an iTunes Playlist (see "Playing a Saved Playlist" below).

Removing a Song from a Song Queue

If you would like to remove a single song from the Song Queue, go to the Song Queue menu by pressing **Menu** and then selecting "Show Song Queue." Navigate to the track you would like to remove and press **Select**. You will see the following options:

```
SKIP TO THIS SONG
PLAY NEXT
GET INFO
REMOVE FROM SONG QUEUE
```

Navigate down to the "Remove from Song Queue" option and press **Select**.

To remove the song that is currently playing from the Song Queue, go to the Now Playing screen by pressing **Menu**, then selecting Now Playing from the list of options, or by simply pressing **Exit** until the Now Playing menu appears. (SoundBridge also defaults to this screen after several minutes of remote control inactivity). Press **Select** to display the following options:

```
GET INFO FOR SONG
REMOVE FROM SONG QUEUE
```

Navigate down to "Remove from Song Queue" and press **Select**. The Song Queue will begin playing the next song in your queue. (Or, if there are no more songs to play, playback will stop.)

Erasing a Song Queue

If you change your mind and decide you don't want to play the Song Queue you've just created, simply select something else to play. Navigate to another selection (song, playlist, etc.) and press **Select** (not Add). This selection immediately replaces your old Song Queue.

Repeat and Shuffle

Pressing **Repeat** once makes your Song Queue play continuously. You will see the Repeat icon ↻ displayed on the right side of your "Now Playing" screen below the Play ▶ icon. Pressing **Repeat** again makes the current song play over and over; you will see another Repeat icon, a circle with just one arrow ↻1. Press **Repeat** a third time and you will remove the repeat command altogether.

Pressing shuffle while playing a Song Queue will give you the following options:

Shuffle On — will play everything in your Song Queue in random order. (The shuffled

order of songs will be displayed in the Song Queue.) An icon with two crossing arrows ⤮ will be displayed on your Now Playing screen.

Shuffle Off — will play everything in your Song Queue in the original order.

You can execute the **Repeat** and **Shuffle** command from any menu in SoundBridge. Even though you can only see the mode change on the Now Playing screen, the command is taking effect.

Pausing Music Playback

Press the **Pause** button to halt music playback. Notice a Pause icon ⏸ is displayed at the top right of your "Now Playing" screen, indicating that you're in Pause mode. Pressing the **Play** button (or the Pause button again) will resume playback right where you left off.

When the Song Queue has played all the way through, it will stop. You will see the Stop icon ■ on the right side of your display. To start playing your Song Queue again at the beginning, press the Play ▶ button.

> ***Hint***: Press **Repeat** if you would like your Song Queue to play continuously. You will see the Repeat icon ↻ displayed on the right side of your Now Playing screen below the Play ▶ icon.

Skipping Tracks During Playback

If you'd like to skip a song during playback, press the "Next Track" button ⏭ on your remote control. Or, navigate to another song through your browsing options and press **Select**.

> ***Hint***: Pressing **Pause** to stop playback of your Song Queue will only do so temporarily. If you want to clear the memory of your old Song Queue or selection entirely, simply navigate to something else you want to play, and press **Select** twice to play your new selection. This way, you are effectively flushing your old selections or Song Queue away, to be replaced by your new selection. Therefore, if you want to build on your existing Song Queue, press **Add** instead of **Select** and your prior selections will be preserved.

Playing an iTunes Playlist

Let's say you have created a playlist of your favorite Disco hits in iTunes, and named it

DISCO INFERNO. Press the **Menu** button to go to the Main Menu. Go to the PLAYLISTS option, then press the **Select** button. Use your Up/Down ▲ ▼ arrows to browse your playlists one by one, find the one called DISCO INFERNO, then press **Select** twice to play all songs on the playlist immediately or **Add** to add the playlist to your Song Queue.

> ***Hint***: While browsing any list, use or left/right arrows ◀ ▶ (instead of Up/Down arrows ▲ ▼) to skip around more quickly in your list.

Browsing by Artist or Composer

From the Main Menu, use the Down ▼ arrow to highlight BROWSE and then press **Select**. Navigate to BROWSE ARTISTS and press **Select.** Your screen will look something like this:

```
➔ ANNIE LENNOX          ^  <A>
  BEN FOLDS FIVE        v
```

Find the artist you would like to play and press **Select**. You will see a screen that lists the albums available by that artist:

```
➔ <SHOW ALL MATCHING SONGS>
  MEDUSA
```

While the first menu option <ALL MATCHING SONGS> is active, press **Add** to add this selection to your existing Song Queue, or press **Select** twice to play all songs by this artist instead and replace your existing Song Queue. (Songs will play in the order they appear on each album, with each album played in alphabetical order).

You can choose specific albums or songs to play by navigating down to your desired album and pressing **Add** to add to an existing Song Queue, or **Select** twice to replace an existing Song Queue. Note: if your selected album contains songs by different artists, such as compilation albums or movie soundtracks, only the song(s) by your artist will be played.

> ***Hint***: To browse faster, instead of browsing up and down one at a time using Up/Down arrows ▲ ▼, you can "speed browse" through your lists by pressing the left/right arrows ◀ ▶. This will skip by the letter of the alphabet.

Browsing by composer works the same way as browsing by artist — see instructions above.

Browsing by Genre

From the Main Menu, navigate down to the BROWSE option and press **Select**. Scroll down to BROWSE GENRES and press **Select**. You will see an alphabetical listing of genres that are available in the music library that you are browsing. To add all songs within a Genre to your Song Queue, highlight that Genre and press **Add** (or **Select** to open additional options for playback).

To browse within a genre, such as Hip Hop/Rap, press **Select** on your desired genre. You will have the option to see all available artists in that genre, and a list of individual albums by those artists. At any point, you can press **Add** to add that selection to your Song Queue or press **Select** to navigate to the next level of detail.

> ***Hint*:** Information about your music, including Song Name, Artist, Album, and Genre is usually created automatically by the software you used to save your audio CD files on your computer's hard drive (aka ripping). This process creates data called "ID3 tags" to describe each track. If this data is missing from your audio files, they will not appear when you browse by that data category. If you need to edit your ID3 tags, or if you are not satisfied with the description of genres (or other data) assigned to your music file, it is possible to edit that data in iTunes. (Select the file(s) to edit, click on File/Get info, then click on the Info tab).

Search Options

To search for a specific selection by spelling it out, you can press the **Search** button on your remote control, or navigate down to the "Search" option from the Main Menu. Either way, you will have the following options:

```
SEARCH FOR ALBUMS
SEARCH FOR ARTISTS
SEARCH FOR TITLES
SEARCH KEYWORDS
```

Press **Select** on the option you would like to search with. Then, use your Left/Right ◂ ▸ arrows on the remote control to enter characters for spelling your selection and then pressing **Select**. When you are done spelling, use the Down ▾ button to the OK option and press **Select**. (If you make a

mistake, use the Down ▼ button to go to the Delete option and press **Select**.)

Hint: Partial spelling is OK — for example, if searching for Radiohead, you can enter only the first two letters, "RA", and the results will return all Artists matching that search (Radiohead, Ratt, etc).

Hint: Band names starting with "the," such as The Beatles, will be found under "T" for "the."

When you find the music you like, use the **Add** button to add it to your Song Queue. If searching for albums or artists, you can press **Select** to navigate down one level to individual tracks.

If an exact match is not found, your results will show an empty search.

Internet Radio

One of SoundBridge's coolest features is its ability to play Internet radio stations. To play Internet radio stations, follow these steps:

1. **Create an iTunes playlist containing your favorite radio stations.** In iTunes, create a new playlist (any name is okay, but let's use "RadioFavorites"). Next, browse the iTunes Internet radio station list by clicking on the Radio button on the Source tray of iTunes:

Then, drag & drop the radio stations you like onto the new "RadioFavorites" playlist. The result is a standard iTunes playlist that contains your favorite radio station (see below).

2. Play your playlist on SoundBridge. From the SoundBridge Main Menu, select "Playlists." Scroll down until you find the "RadioFavorites" playlist. Select it. You can now scroll through your favorite radio stations. Press **Select** to start playing your desired station. Use the Up/Down ▲ ▼ arrows to see the list of available stations, or the Next Track ⏭ , Previous Track ⏮ buttons to switch stations.

Note: To date, there is unfortunately no standard for Internet radio stations, and many different audio formats and streaming techniques are used in the industry. SoundBridge will support many of the Internet radio stations, but not every one of the many, sometimes proprietary, standards. The only sure way to know if a radio station will play on SoundBridge is simply to try it.

When You Are Finished Using SoundBridge

When you are finished playing music and using the SoundBridge altogether, just press the Standby ⏻ button on your remote.

If you plan to disconnect the SoundBridge from AC power after you are done using it, be sure to press the Standby button first. This logs you out of the iTunes server.

Hint: If you unplug the SoundBridge from AC power five times without logging out first, iTunes will lock you out of connecting to the server. That's because iTunes allows a maximum of five users to connect at one time. (If you don't put SoundBridge into standby mode before unplugging the AC power cord, iTunes may believe you are still connected.) To restore your access to the iTunes server, close iTunes and then restart it. You should then have no trouble connecting to the iTunes server as before.

ADVANCED FEATURES

Control Brightness, Contrast and Text Display

The **Bright** button on your remote lets you change the brightness of your display using the Up/Down arrows ▲ ▼. For some models, you will also see the option to change contrast using the left/right arrows ◀ ▶. For SoundBridge M1000 and M2000, text size can be controlled using the left/right arrows ◀ ▶, affecting how many lines of text you see on screen at one time. M1000 can display one line or two lines at once; M2000 can display one, two, or four lines at once.

The Settings Menu

SoundBridge settings can be changed in the SETTINGS option located at the bottom of the Main Menu. Your Settings screen will show the following options (scroll down using your remote control to see the complete list):

```
  VISUALIZER SETTINGS...
✔ RETURN TO NOW PLAYING WHEN IDLE
✔ SCROLL LONG INFO IN NOW PLAYING
✔ DISPLAY COMPOSER FOR CLASSICAL WORKS
  SKIP ITEMS UN-CHECKED IN ITUNES
```

Music Visualizer Settings

You can customize the kind of visualizer to display, whether it appears full-screen or on the right side of the Now Playing menu, and other options. Use the Main Menu/Settings/Visualizer Settings command to explore these options.

Safe Mode

SoundBridge includes an option to run in "Safe Mode," which is a mode with limited features that is enabled automatically when SoundBridge detects that its software has become corrupted. Its goal is to download a new version of software from Roku and to restore factory settings. When SoundBridge enters Safe Mode, you will notice the text "Safe Mode" displayed on the right side of the display. Your menu will only include options to update your software, configure your network, and restore factory defaults.

While in Safe Mode, your stored network settings will not be recalled. Therefore it may be necessary to configure your network before SoundBridge can connect to the Internet in order to download new software.

Safe Mode can also be entered manually by powering SoundBridge off (by unplugging it from power) and on again, while at the same time pressing and holding any button on the remote control.

Restore Factory Default Settings
To restore SoundBridge's factory default settings, press Menu, select "Change Library or Configuration," then select System Configuration, then select "Reset to Factory Defaults."

Geeks — Read This
The SoundBridge has a command line interface that you can "telnet" to for piddling about. You will need to telnet to port 4444. Type "?" at the command prompt to see a list of commands. We will be documenting in more detail how to control a SoundBridge in the coming months, as well as updating the software in this area. When documentation is available, it will be posted on the developer section of our web site.

WI-FI SETUP

Background

Why Wi-Fi?
With SoundBridge's wireless functionality, you can now stream music from computers on your wireless network to one or more Wi-Fi enabled SoundBridge devices via your wireless access point (WAP). You can even connect up to five SoundBridges to one iTunes music library and listen to different tunes in every room of your house.

Wi-Fi setup instructions

1. Verify that your wireless network is up and running on your computer. If you are setting up this wireless network for the first time, please make sure that you have followed your wireless vendor's instruction manual for proper configuration of your wireless access point.
2. Remove both the left and right end caps of SoundBridge by pressing on the two release tabs labeled "push." If your SoundBridge is currently powered on, press Standby on your remote and then disconnect SoundBridge from power by unplugging the AC power cord.
3. Remove the CompactFlash wireless card from its packaging and insert the card into the CF slot on the left side of SoundBridge. Make sure that the "Roku" label and two small status lights are facing *away* from you as you gently push the card into place. (Note: The LED lights will not be illuminated until you power on SoundBridge). Be careful, forcing the card into position may damage your device.
4. If you had been previously using a wired Ethernet connection, disconnect the cord from the SoundBridge. **Make sure you have only the Wi-Fi card or the wired Ethernet connection attached to the device — never both at the same time.**
5. Start up iTunes or SlimServer on your computer, which is connected to your wireless network.

6. Turn on your SoundBridge by plugging the power cord into the right side of the device, then into the wall AC outlet. Verify that the screen displays the Roku logo.

7. Upon startup, SoundBridge will attempt to connect to any wireless access point within range that does not require a password. If your home wireless network requires no password and there are no other wireless networks in the vicinity (such as those spilling over from a neighbor's house), then your SoundBridge should automatically connect with no additional configuration, and you will see a list of music servers on your network to connect to.

However, it's possible you will need to configure your wireless network as described below:

- If your SoundBridge detects more than one available wireless network, then you will need to configure SoundBridge's Wi-Fi settings. Choose "System Configuration" from the main menu, and then select "Select Wi-Fi SSID & Password." You will then see a list of available wireless networks. If you see your desired network, select it. If you don't see the desired network, make sure that your wireless router is within range and that it is functioning properly.

- Some wireless networks don't "advertise" themselves (a.k.a., "closed networks"). If your wireless access point is functioning properly but you do not see the network listed, you should enter your wireless network name by selecting "Specify a wireless network..." (Refer to your wireless access point's documentation or utility software if you don't know the name of your wireless network.)

- Next, your SoundBridge will ask you whether the wireless connection requires a password. If you do not have a wireless password, select "No" and skip to the next section. If you do have a wireless password, select "Yes." Read the instructions on the screen to determine what type of wireless password you have on your network. If you are unsure, you may wish to refer to your wireless router documentation. (See hints below for help finding your wireless access point's password.)

- Select “OK” to reboot the unit. Upon restarting, SoundBridge should automatically connect to the network you have specified.

If the connection is successful, all the available iTunes and/or SlimServer music libraries will be listed on your screen. Use the up and down arrows on your remote to navigate to your desired library and press **Select** to begin browsing your music library.

Troubleshooting Wi-Fi Setup

If you have problems connecting to the SoundBridge to your music library via Wi-Fi, please check the following:

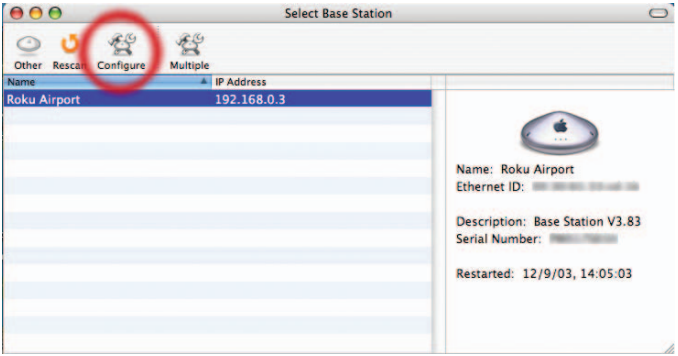
1. Are the LED lights lit up inside the CompactFlash Wi-Fi adapter? If not, your card is not receiving power. Make sure the SoundBridge is powered on (the LED screen is lit). Remove and re-insert the CF card with the label facing away from you. It should require gentle pressure to be inserted into the CF slot.
2. Is SoundBridge within range of your wireless network signal? Performance varies depending on wireless network hardware, physical barriers such as walls, and signal interference.
3. Is your computer on and your wireless access point plugged in?
4. Is iTunes or SlimServer launched and running on your computer?
5. Did you enter your password correctly (if you have one), including case sensitive characters?

Obtaining your wireless access point’s password

Follow these instructions to determine your wireless access point password, and be sure to have a pen ready to make a note of the case-sensitive password as well as the password type, either hexadecimal (hex) or ASCII.

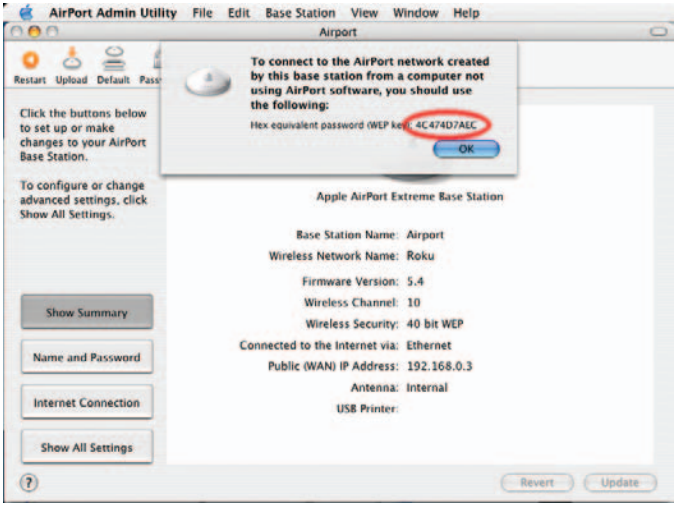
Example 1: Apple AirPort (Mac Users)

The Apple Airport is a very popular access point. To see its configuration, open your AirPort Admin Utility on your Mac (it is in the Utilities folder). Select your AirPort and choose "Configure."



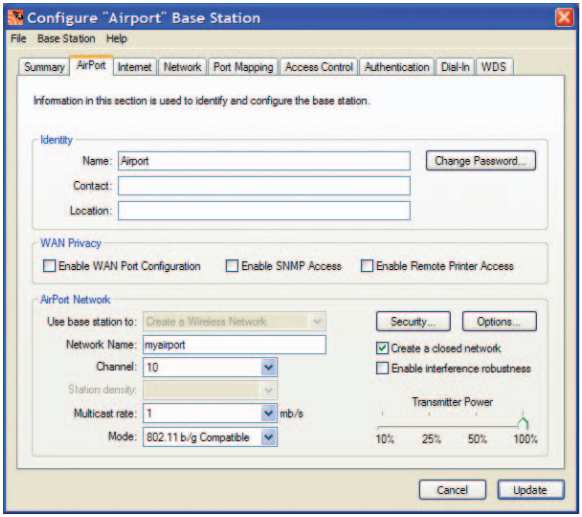
You may need to enter the password for your base station. You should then see the screen below. The line labeled "Wireless Network Name": is the name of your network, also known as an "SSID." You will either select this network on the SoundBridge screen or enter it manually if your network is "closed."

If your network is password protected, you should choose “Equivalent Network Password” from the “Base Station” menu (see illustration above) and write down the value that appears in the dialog (see illustration below). This is the value you will enter into SoundBridge’s wireless setup password field. (Select password type “hex” in the SoundBridge menu.)

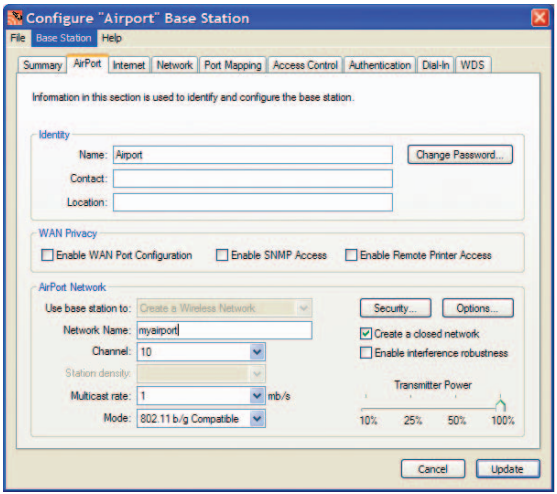


Example 2: Apple AirPort (PC Users)

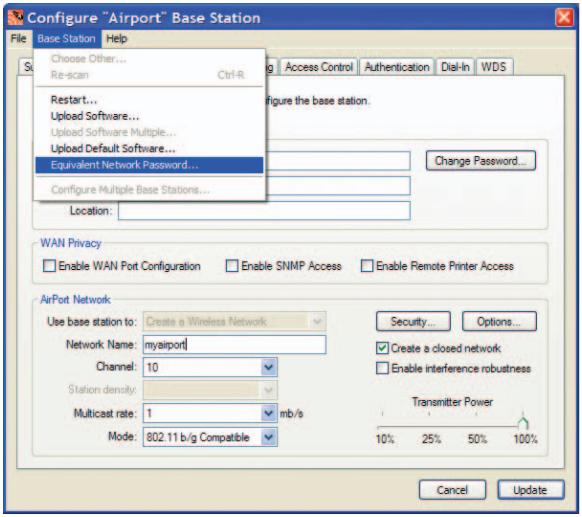
Step 1: Open the AirPort Admin utility (Start/Programs/Airport Admin Utility). Select the network you would like to configure. You should then see the configuration screen below.



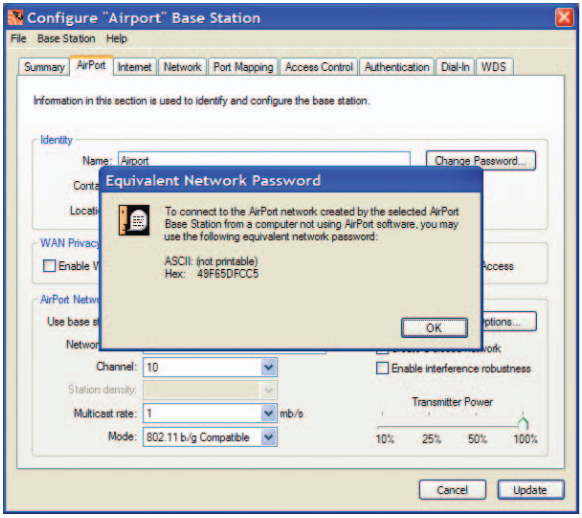
Step 2: Make a note of the name of your wireless network in the “Network Name” field (see below).



Step 3: Select the “Equivalent Network Password” from the “Base Station” drop down menu.



Step 4: Write down the displayed password(s), as well as their format (“hex” in the example below). Press OK to close the dialog box.


Configure "Airport" Base Station
File Base Station Help
Summary AirPort Internet Network Port Mapping Access Control Authentication Dial-In WDS
Information in this section is used to identify and configure the base station.
Identity
Name: Airport
Change Password...
Equivalent Network Password
To connect to the AirPort network created by the selected AirPort Base Station from a computer not using AirPort software, you may use the following equivalent network password:
ASCII: (not printable)
Hex: 49F65DFCC5
OK
Channel: 10
Enable interference robustness
Station density:
Multicast rate: 1 mb/s
Mode: 802.11 b/g Compatible
Transmitter Power
10% 25% 50% 100%
Cancel
Update

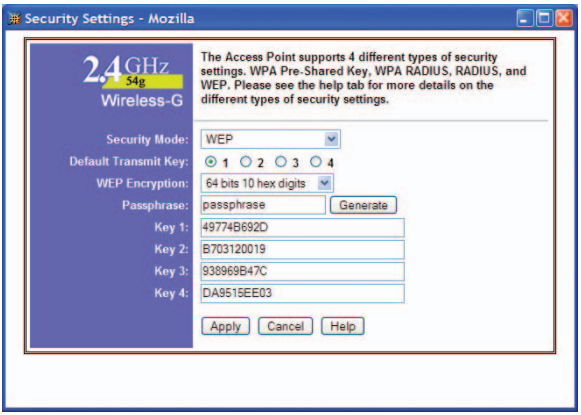
Example 3: Linksys WAP54G

The Linksys WAP54G access point is a popular 802.11g access point. Getting the hexadecimal WEP key from the WAP54G is an easy process. First, open a web browser and connect to the access point. Connecting to the access point is done by entering the access point's IP address in the location bar of your web browser. If you do not know the IP address of the access point, please refer to the software or manual that came with the access point in order to determine the IP address. After successfully logging in, you will see a page similar to the following:

Linksys - Mozilla
LINKSYS
Setup
This screen contains all of the Access Point's basic setup functions. Most users will be able to use the Access Point's default settings without making any changes. Click the Apply button at the bottom of the page to save your changes.
Firmware Version: v1.00. Aug 05, 2003
AP Name: Linksys WAP54G
LAN
MAC Address: 00:0C:41:12:41:00
Configuration Type: Static IP Address
IP Address: 192 168 0 2 This is the IP address. Subnet Mask and Default
Subnet Mask: 255 255 255 0 Gateway of the Access Point as it is seen by
Gateway: 192 168 0 1 your local network
Wireless
MAC Address: 00:06:25:49:30:00
Mode: Mixed
SSID: wireless SSID Broadcast: Disable
Channel: 3 (Regulatory Domain: USA)
Wireless Security: Enable Disable Edit Security Settings
Apply Cancel Help
2.4GHz 54g Wireless-G

Make a note of the "SSID" (in this case "wireless"), this you will need to enter into the "SSID" field in SoundBridge's wireless setup.

As you can see in the next illustration, “Wireless Security” is enabled. Click on the “Edit Security Settings” button to access the WEP setup page:



This Linksys access point allows you to easily view the keys. The default key is key number 1, so make a note of the value of the “Key 1” field (“49774B692D” in this case). This is the value you will enter into SoundBridge’s wireless setup’s “Password” field. You now have the information necessary to configure your SoundBridge to connect to your network. You may close your web browser.

Example 4: Netgear WG602

The Netgear WG602 is an 802.11g Wireless Access Point. Its configuration can be accessed with a web browser. First, open a web browser and connect to the access point by entering the access point's IP address in the location bar of your web browser. If you do not know the IP address of the access point, please refer to the software or manual that came with the access point in order to determine the IP address. After successfully logging in, you will see a page similar to the following:

The value of “Wireless Network Name (SSID)” is the SSID that you will enter into the SoundBridge’s wireless setup. Next, click on “Security Settings” on the left side to access the WEP settings:

If “WEP” is set to “Disable,” then you do not need to enter a password to access your wireless network. If “WEP” is set to “Enable,” you will need to obtain the hexadecimal key for your network. Netgear unfortunately, does not allow you to view the current passphrase or keys. However, if you re-enter the known passphrase and press “Generate Keys,” then it will regenerate the keys as before and allow you to view the keys:

NETGEAR WG602 Access Point - Mozilla
NETGEAR 54Mbps Wireless Access Point WG602
settings
Information
Setup
IP Settings
Wireless Settings
Security Settings
Access Control
Management
Change Password
Upgrade Firmware
Restore Factory Default
Station List
Reboot AP
Advanced
Wireless Settings
Logout
Security Settings
WEP
Enable
Disable
Authentication Type
Open System
Shared Key
Encryption Strength
64 bits
Security Encryption (WEP) Key
Passphrase
sample1passwword
Generate Keys
Key 1:
562E7FF0A0
Key 2:
F74E647FCB
Key 3:
629B3268A6
Key 4:
A0CD8C3BEA
Apply
Cancel
Security Settings Help
WEP
Enable or Disable the Wired Equivalent Privacy
Authentication Type
Specifies the Authentication type used. Open System or Shared Key. If "Shared Key" is selected, you need to enable the WEP and enter at least one shared key.
Default: Open System
Encryption Strength
Select the desired option. If enabled (64 bit or 128 bit) the keys must be entered, and other wireless stations must use the same keys.
Security Encryption (WEP) Key
To use the "passphrase" to generate the keys, enter a passphrase and click the "Generate Keys" button. You can also enter the keys directly. These keys must match the other wireless stations.
Key 1, Key 2, Key 3, Key 4
Select the key to be used as the default key. Data transmissions are always encrypted using the default key. The other keys can only be used to decrypt received data.

Make a note of the value of the key with the active radio button (the default key, in this case “Key 1”: “562E7FF0A0”). This is the password that you will need to enter into your SoundBridge’s wireless setup “Password” field. You now have the information necessary to set up your wireless network from your SoundBridge. You may close your web browser.

Getting help

If you are still having trouble setting up your Wi-Fi connection, please browse our web site support resources at www.rokulabs.com/support or email support@rokulabs.com. We're available for you Monday-Friday 9am-5pm Pacific Time, and usually respond within 24 hours. If you prefer phone support, feel free to email us a phone number where you can be reached during business hours.

TROUBLESHOOTING AND CUSTOMER SUPPORT

Troubleshooting Common Problems

PROBLEM	POSSIBLE CAUSE AND FIX
Unit won't turn on (display not lit)	SoundBridge has no on/off switch; the display should light up when it's plugged into AC power regardless of any network connection.
	Make sure the AC power adapter is pushed all the way into the SoundBridge power plug (located under the right removable end cap).
	Make sure your power supply has a good connection to the wall outlet.
	If your AC power adapter is plugged into a power strip, be sure the strip is turned on.
Remote control not responding	Make sure you have inserted two fresh AAA batteries into the remote.
	Remove any objects that may be blocking the SoundBridge's IR receiver window on the right of the unit (below the SoundBridge logo).

Can't connect to network, and Firewall software is running	Make sure your Firewall software is configured to allow iTunes music sharing. **Mac:** Open System Preferences. Select the Sharing icon and click on the Firewall tab. Select the option "iTunes Music Sharing." **PC:** Refer to your documentation for changing firewall settings. Add a new port to enabled ports — specify port 3689 to open. If running Windows XP2, open "Security Center," select "Windows Firewall," click on the "Exceptions" tab, and check to see that iTunes is enabled. If not, use "Add Programs" to enable it. After these changes have been made, restart SoundBridge by disconnecting it from AC power.
Can't connect to network: Wired Ethernet	Check to make sure your Ethernet cable is properly connected to your SoundBridge and to your home networking hardware. Make sure the "link" light is lit. For additional help, see www.rokulabs.com/support
Can't connect to network: Wireless	Check to make sure your Wi-Fi adapter CF card is inserted securely under the left end cap of SoundBridge, and the power light is lit on the CF card. For additional help, see www.rokulabs.com/support
Can't get to main menu upon startup	Your music library is not detected because your network connection is not active. Check your network connections, including cables and power supply.

	Make sure that your computer containing your digital music library is powered on and iTunes is running.
	In iTunes, be sure to turn on the "sharing" option. Go to the iTunes / Preferences menu or Edit/ Preferences for PC users. In the Dialog box that appears, click the "Sharing" icon, then check the option "Share my music" to enable sharing on your local network.
	If you unplug the SoundBridge from AC power five times without logging out first, iTunes will lock you out of connecting to the music server. That's because iTunes allows a maximum of five users to connect at one time. (If you don't put SoundBridge into standby mode before unplugging the AC power cord, iTunes may believe you are still connected.) To restore your access to the iTunes server, close iTunes and then restart it. You should then have no trouble connecting to the iTunes server as before.
No sound	Make sure a song is actually playing. Press **Menu**, navigate to Now Playing and press **Select**, and check to see that the screen shows a song title with the Play icon ▸ visible in the upper right corner of the screen.
	Make sure the volume on your SoundBridge is turned up high enough.

	If SoundBridge is plugged into powered speakers, make sure they have power, and are turned on at a sufficient volume.
	If SoundBridge is plugged into audio receiver or amplifier, make sure it's turned on, the correct line input is selected, and volume is turned up. Also make sure your speakers are connected properly to your receiver.
Can't find playlists that I saved on my computer	Make sure your playlist was created in iTunes and is visible in your iTunes application.
Can't see some of my music files while browsing	Your ID3 data tags may be missing. Information about your music, including Song Name, Artist, Composer, Album, and Genre is usually created automatically by the software you used to save your audio CD files on your computer's hard drive (aka ripping). This process creates data called "ID3 tags" to describe each track. If this data is missing from your music files, they will not appear when you browse by that data category. To add to edit your ID3 tags, open iTunes, select the file(s) to edit, then click on File/Get info, and click on the Info tab.
Music file won't play	Be sure that Playback mode is enabled, e.g., that music isn't paused (press **Play** button until you see Play icon displayed on screen). Then, browse or search to the track(s) you want to play, and press **Select** twice to play them immediately or **Add** to add them to your Song Queue.

	Make sure your file is a supported format: MP3, AAC, AIFF, WAV. Files purchased at the Apple Music Store DRM AAC files (i.e., files purchased on Apple's music store) are not supported. Those files will be detected but will show a lock icon next to the title on your display, and will be skipped during playback.
	If you've pressed **Add** to add a selection to Song Queue, it may be queued to play later on in your Song Queue. Use the next track ⏭ button to skip to the desired song. Or, use Menu/Show Song Queue to display all songs in your Queue, then navigate to your desired song and press **Play**.
	If your audio file is WMA, FLAC or Ogg-Vorbis format, you will need to install and use the SlimServer software. SoundBridge's built-in software does not support playback of these audio formats. If your files are in WMA format, iTunes can convert them into the better AAC format, if you wish.
Bad sound (clipping/distortion)	Make sure your audio cables are plugged in properly to SoundBridge and to your speakers or audio system.
	Make sure your source file is of good audio quality by playing it back on your computer. If the file sounds good on your computer, see www.rokulabs.com/support

Can't save Song Queue	Saving Song Queue created with SoundBridge is not possible with the current software. If you want to create a playlist to save, do so using iTunes.
Can't see upcoming songs in Song Queue	Navigate to Main Menu/Show Song Queue.
	From the Now Playing menu which displays current track info, press the Down ▼ arrow.

Visit our FAQ and User Forum at
www.rokulabs.com/support

APPENDICES

End User Software License Agreement

IMPORTANT — READ CAREFULLY: By using the software in your SoundBridge, you agree to be bound by the license terms and conditions below. If you do not agree to these terms and conditions, you must immediately return your SoundBridge in its original condition and packaging to the point of purchase for a refund of your purchase price (after inspection).

iTunes Disclaimer

Roku SoundBridge interfaces to iTunes using the Apple DAAP protocol, under license from Apple. This license gives apple the right to terminate the license for any reason. Roku has no control over this, and is not responsible in the unlikely event Apple does so. In this event, Roku will use commercially reasonable efforts to provide software that installs on your PC via a download that provides similar functionality, but Roku makes no representations or warranties regarding the features available in such a situation.

Roku Software License

Subject to these terms and conditions, ROKU grants you a non-exclusive license, with no right to sublicense, to execute the software included with the SoundBridge or subsequently provided to you by ROKU (together, the "Software") on your SoundBridge solely for your personal use of the intended features and functions of the SoundBridge. The license may be transferred only with the transfer of the SoundBridge on which ROKU has installed the software; any transferee will be subject to the terms and conditions of this license. This license will terminate automatically, without notice, if you fail to comply with the terms and conditions, including the restrictions, of this license.

ROKU and its licensors own and retain all proprietary rights, including all patent, copyright, trade secret, trademark and other intellectual property rights, in and to the SoundBridge Software. You acknowledge that the license granted above does not provide you with title to or ownership of the Software, but only a right of limited use under these terms and conditions. The Software embodies ROKU's trade secrets and other proprietary information and materials. Any attempt to modify, enhance, disassemble, decompile, reverse engineer or otherwise gain access to the source code to the Software, to remove or unbundle the Software from the SoundBridge, or to sublicense or distribute the Software is strictly prohibited, except as may be otherwise agreed by ROKU in writing.

Warranty

Roku SoundBridge is covered by a one year parts and labor warranty.

Roku SoundBridge Limited Warranty

1. **Warranty.** ROKU, LLC ("ROKU") warrants your SoundBridge and any included accessories against defects in material or workmanship as follows:

   For a period of one (1) year from the date of purchase ("Warranty Period"), if ROKU determines that the SoundBridge is defective, ROKU will repair the unit or replace the unit (with either a new or rebuilt SoundBridge unit), at its option, at no charge and, if applicable, will pay the labor charges incurred by any SoundBridge authorized service facility. If the Warranty Period has expired, the customer is responsible for the payment of all labor charges and may obtain parts from ROKU authorized service facilities or a SoundBridge service center at his or her own expense.

2. **Warranty Service Process.** To obtain warranty service, you must first obtain an RMA number (Return Merchandise Authorization) from a Technical Support Representative at ROKU. A Technical Support Representative may be reached by emailing **support@rokulabs.com** or calling our toll free number for customer care (1-866-400-7658 from the US). Once an RMA number is obtained, your SoundBridge must be shipped freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to the SoundBridge authorized distribution facility. If ROKU determines that the returned unit is defective, ROKU will either repair the unit or will supply, at no charge and within a reasonable period of time, a new or rebuilt SoundBridge unit in exchange for the defective unit.

   In addition, all accessories must be returned with the defective SoundBridge. A new or factory refurbished set of accessories will be furnished with the replacement SoundBridge. Failure to return any of the accessory items could result in a delay in receiving the replacement SoundBridge, and/or result in an invoice for the missing accessories.

Important: When emailing for an RMA number, please provide the following information:

a. model number

b. serial number

c. problem description

d. software version (located in System Configuration menu)

e. date of purchase

f. place of purchase (dealer or online place of purchase)

g. return shipping address (no P.O. boxes)

Note: Proof of purchase will need to be included in the return shipment in order to ensure warranty coverage. In addition, we may attempt to further troubleshoot the problem prior to issuing an RMA number. Please be prepared to provide additional information upon request.

3. **Scope of and Limitation on Warranty.** The warranty on this product is limited to the repair or replacement of defective units as described in Section 1 above. This warranty does not cover customer training or education, installation, set up adjustments or signal reception problems. This warranty does not cover damage due to acts of God, accident, misuse, abuse, negligence, commercial use or modification of, or to any part of, your SoundBridge. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply or attempted repair by anyone other than a facility authorized by ROKU to service your SoundBridge. This warranty does not cover consumables (such as fuses and batteries). This warranty is valid only in the country of purchase from an authorized ROKU distributor or dealer. This warranty is invalid if the factory-applied serial number and/or "Warranty Void if Removed" sticker has been altered or removed from the SoundBridge.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. ROKU SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, ARISING OUT OF OR RELATED TO THIS PRODUCT OR ITS PURCHASE OR USE. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

THE SOUNDBRIDGE INCLUDES SOFTWARE PROVIDED BY THIRD PARTIES. ROKU'S WARRANTY DOES NOT APPLY TO THIRD PARTY SOFTWARE, AND ROKU IS NOT RESPONSIBLE FOR THIRD PARTY SOFTWARE. ADDITIONAL TERMS AND CONDITIONS, INCLUDING DISCLAIMERS OF WARRANTY, FOR THIRD PARTY SOFTWARE CAN BE FOUND ELSEWHERE IN THE PRODUCT DOCUMENTATION.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Technical Specifications

M2000
Dimensions 17" Wide x 2.75" Diameter
Weight 2.75 lbs
Graphical Display 512x32

M1000
Dimensions: 10" Wide x 2.37" Diameter
Weight 1.5 lbs
Graphical Display: 280x16

Left End Cap
10mbps Wired Ethernet (RJ45)
Compact Flash Slot (for Wi-Fi adapter)

Right End Cap
Power
Analog Stereo Audio Output
Optical Digital Audio Output
Coax Digital Audio Output

Cable Management
All cable connections are under the removable end caps and cables exit through an opening at the back of the end cap

Audio Output
Analog Left, Right
Digital S/PDIF Coax
Digital TOSlink Optical
Maximum Line Output: 3.2 Volts Peak-to-Peak
THD +N: 93dB typical
Dynamic Range: 96dB typical
Frequency Response: <20Hz - >20kHz

Supported Protocols
Apple Rendezvous™
SlimServer Open Source 5.x-based streaming and control protocols
TCP, DAAP, AutoIP, HTTP, others

Audio Format Support
MP3, AAC, WAV, AIFF, (WMA, Apple Lossless, FLAC, Ogg-Vorbis supported with optional SlimServer software)

Sample Rates Supported (kHz)
8.0, 11.025, 12.0, 16.0, 22.05, 24, 32, 44.1, 48.0

Bit Depth Supported
8 bit, 16 bit, stereo or mono

Network Connections
10MBit wired Ethernet or 802.11b CompactFlash wireless adapter

Power Supply
Switching 110/220V power supply
- M1000
  i. Output: 9V, 1.3 amp
  ii. Input: 100-240V; 50/60Hz
- M2000
  i. Output: 24V, .75 amp
  ii. Input: 100-240V; 50/60Hz

Windows® System Requirements
WindowsXP or 2000 (iTunes users); Windows 98, ME, 2000, XP, NT (non–iTunes users)
500MHz Pentium class processor or better
128MB RAM minimum / 256MB RAM recommended

Macintosh System Requirements
Mac OS X v 10.1.5 or later (iTunes users); Mac OS 10.1–10.3 (non–iTunes users)
400MHz G3 processor or better
128MB RAM minimum / 256RAM recommended

Other Requirements
Computer with network connection

Optional Accessories
Approved CompactFlash Wi-Fi Card
SoundBridge Mounting Kit — includes mounting brackets for wall and under-shelf mounting
Additional Remote Control

Third-Party Accessories
Approved CompactFlash Wi-Fi Cards
Powered Speakers

FCC Warnings and Safety Information

Communication Regulation & Safety Information

FCC Compliance
This section describes the requirements for compliance with Federal Communications Commission (FCC) Rules.

FCC Registration and Requirements
The following paragraphs describe requirements and information based on FCC rules.

FCC Rules, Part 15
This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver;
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Responsible party (contact for FCC matters only): Roku, LLC, 399 Sherman Ave. #12, Palo Alto, CA 94306, 650-321-1394. For customer service questions go to: http://www.rokulabs.com/support/.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Canada Class B Statement
This Class B device meets all requirements of the Canadian interference-causing equipment regulations. Cet appareil numérique de la Class B respecte toutes les exigences du Réglement sur le materiel brouilleur du Canada.

VCCI Class B Statement

この装置は，情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＢ情報技術装置です。この装置は，家庭環境で使用することを目的としていますが，この装置がラジオやテレビジョン受信機に近接して使用されると，受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

Safety

Important Safety Instructions

1. **Read Instructions.** All the safety and operating instructions should be read before the product is operated.
2. **Retain Instructions.** The safety and operating instructions should be retained for future reference.
3. **Heed Warnings.** All warnings on the product and in the operating instructions should be adhered to.
4. **Follow Instructions.** All operating and use instructions should be followed.
5. **Cleaning.** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. **Attachments.** Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. **Water and Moisture.** To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus. Do not use this product near water for example, near a bathtub, wash bowl, kitchen sink or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. **Accessories.** Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.
9. **Power Sources.** This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
10. **Grounding or Polarization.** This product may be equipped with a polarized alternating-

current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

11. **Power Cord Protection.** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the product.

12. **Overloading.** Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.

13. **Object and Liquid Entry.** Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

14. **Servicing.** Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

15. **Damage Requiring Service.** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

    – When the power-supply cord or plug is damaged,

    – If liquid has been spilled or objects have fallen into the product,

    – If the product has been exposed to rain or water,

    – If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,

    – If the product has been dropped or damaged in any way, and

    – When the product exhibits a distinct change in performance, this indicates a need for service.

16. **Wall or Ceiling Mounting.** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

17. **Heat.** The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

Safety/Regulatory Information

User/Installer Caution

Your authority to operate this FCC certified equipment could be voided if you make changes or modifications not expressly approved by the manufacturer, who is responsible for compliance with Part 15 FCC rules.

European Community

Complies with EU Directive 89/336/EEC using EN55022:1998, EN55024:1998, EN61000-3-2:2000 and EN61000-3-3:1995.

CE Warning: This is a class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Need help? Go to
www.rokulabs.com/support

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